

A giant leap into space science and technology – a new era in service of humanity.

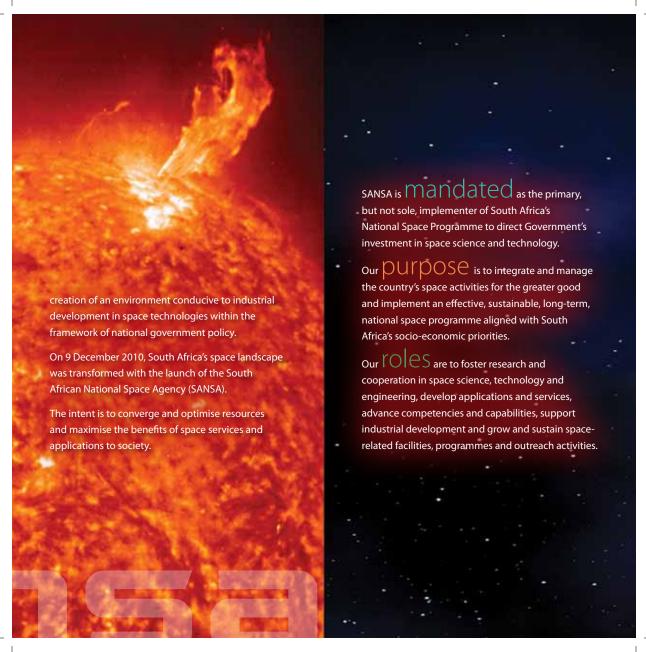
Mankind's age-old fascination with space extends beyond cultures, borders and generations while, over the centuries, scholars, poets and prophets have pondered its great infinity.

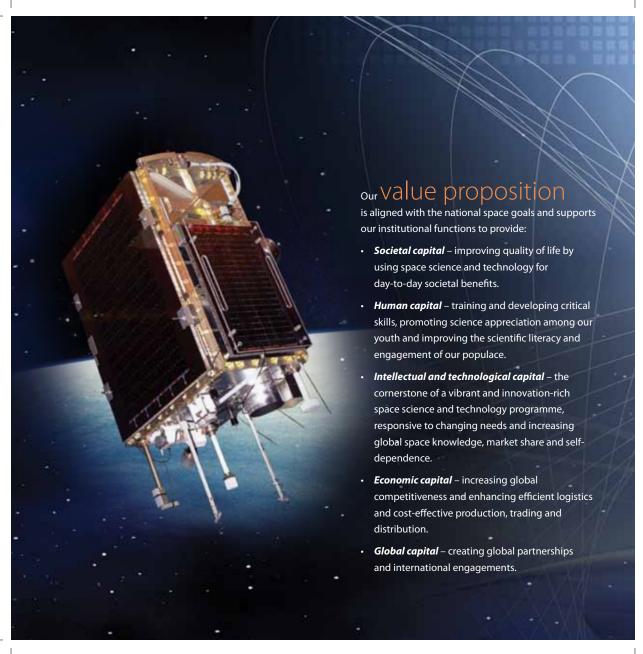
Over fifty years ago, Sputnik I hailed the advent of the Space Age – an age that has seen fundamental change to the fabric of societies world-wide. Today, there is agreement globally that space exploration and the application of space technologies are essential to solving many of the challenges that we face, and will face in the future.

Knowledge of and from space improves our ability to manage and sustain our natural environment and resources, increase the mobility of people and products and deal with health and security threats. It offers instant communications, enables us to accurately observe and locate any spot on Earth and empowers us to timeously foresee and deal with economic and human catastrophes.

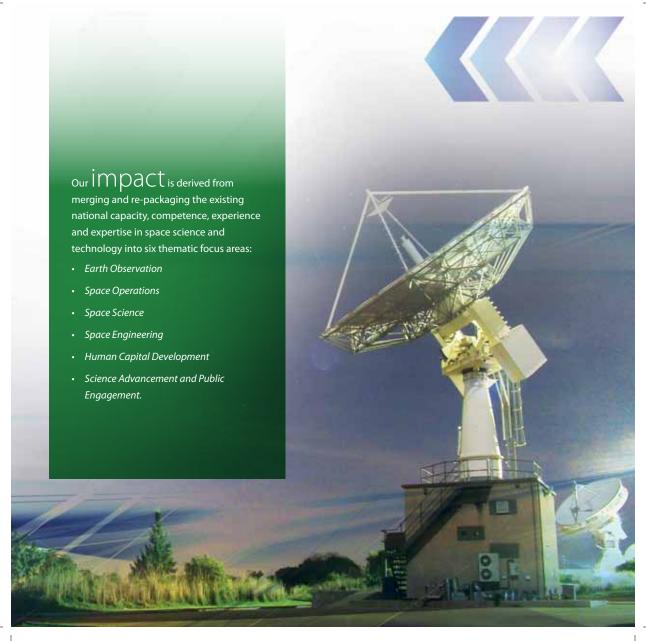
As a technologically advancing country and part of the global village, South Africa is increasingly also reliant on space-based services and applications.







SANSA's GOalS are to provide: The goals of the National Space Strategy are to: world-class and efficient services and capture a global market share for small • cutting-edge research, development, to medium-sized space systems to help innovation, technology and application establish a knowledge economy and promote innovation and industrial • effective human capital development integrate space-based with ground-• a globally competitive national space based systems to improve decisionmaking with timeous, accurate the positioning of South Africa as a information, and recognised global space citizen. use space science and technology to develop applications for geo-spatial, positioning products and services.



SANSA Earth Observations

ANSA Earth Observation drives and coordinates South Africa's earth observation efforts to sustainably benefit all South Africans in an earth-friendly manner. Our activities are aligned with the South African Earth Observation Strategy (SAEOS) and other related international initiatives like GEO, GEOSS and CEOS.

Our objective is to collect, assimilate and disseminate earth observation data to support South Africa's policy-making, decision-making, economic growth and sustainable development initiatives.

Our impact is in providing:

 essential earth observation services for socioeconomic benefit, including environmental and resource management, disaster management and health, safety and security management

- data and value-added remote sensing services for earth observation research and development
- human capital development and science advancement in geo-informatics, image and data processing and remote sensing.





SANSA Space Operations

ANSA Space Operations provides state-of-the-art ground station facilities and services, including satellite tracking, telemetry and command, as well as launch support, in-orbit testing, mission control and space navigation.

Our objective is to be a leading ground station on the continent

Our impact is in providing:

- globally competitive space operations and applications
- launch support, tracking, telemetry and command services

- managing ground stations for international clients
- applied research, development and innovation in key space operations and applications
- human capital development and science advancement in space operations and applications.





SANSA Space Science

ANSA Space Science focuses on basic and applied space science research and related services, as well as human capacity development, science advancement and public engagement activities.

Our objective is to be a central pillar for space science research, knowledge creation and utilisation, as well as human capital development, science advancement and public engagement.

Our impact is in providing:

• a state-of-the-art research and applied science service platform

- cutting-edge collaborative and multidisciplinary research, development and innovation
- human capital development and science advancement in space science.





SANSA Space Engineering

ANSA Space Engineering will lead space system and sub-system development activities. Our efforts are aligned with South Africa's strategic drive to become self-reliant with its own satellite system development capabilities, unique technologies and related skills to create a technology base for our industry and promote initiatives in advanced manufacturing technology.

Our objective is to be the leader in the technical development of space systems and sub-systems.

Our impact is in providing:

- state-of-the-art satellite assembly, integration and testing services
- satellite systems and sub-systems coordination and development

- human capital development and science advancement in space engineering
- an environment conducive to industrial participation in satellite system and sub-system development.





SANSA Cross-cutting themes

Human Capital Development

ur aim is to train and develop South Africans in key areas of national importance, develop scarce and transferable skills and contribute to transforming the country into a knowledge-based economy.

Our objectives are to:

- advance inclusive human capital growth and development for the knowledge economy, and
- create awareness about opportunities in the space industry.

Our impact is in providing:

- facilities and resources
- awareness about the space industry
- post-graduate co-supervision in partnership with universities
- student training, internship and professional development programmes and in-service training.

Science Advancement and Public Engagement

ur aim is to increase the uptake and appreciation of science among our youth and improve the overall scientific literacy and engagement of the general public.

Our objectives are to:

- promote science advancement and public engagement
- participate in national science awareness events, and
- encourage studies in science, engineering and technology.

Our impact is in providing:

- outreach programmes for schools and learners
- workshops for science educators
- communications tools such as tele-education
- decision-making tools and information.

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